### Use of Flood Control Diagram

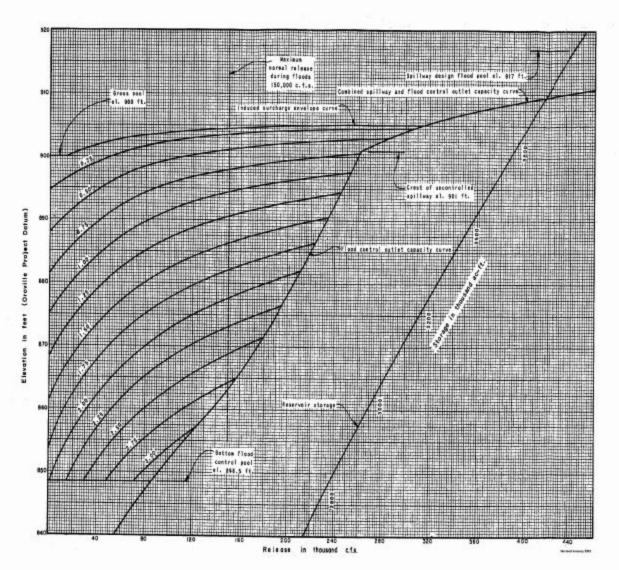
- Parameters are computed daily from the weighted accumulation of seasonal basin mean precipitation by multiplying the preceding day's parameter by 0.97 and adding the current day's precipitation in inches.
- Except when releases are governed by the emergency spillway release diagram currently in force (File No. 4-13-586), water stored in the flood control reservation, defined hereon, shall be released as rapidly as possible, subject to the following conditions:
  - a. That releases are made according to the release schedule hereon.
  - b. That flows in Feather River above Yuba River do not exceed 180,000 c.f.s.
  - c. That flows in Feather River below Yuba River do not exceed 300,000 c.f.s.
  - d. That flows in Feather River below Bear River do not exceed 320,000 c.f.s. insofar as possible.
  - e. That releases are not increased more than 10,000 c.f.s. or decreased more than 5,000 c.f.s. in any 2 hour period.

### RELEASE SCHEDULE

ACTUAL OR FORECAST IN FLOW (WHICHEVER IS GREATER)	FLOOD CONTROL SPACE USED	REQUIRED RELEASES
c.f.s.	ac-ft	c.f.s.
0 - 15,000	0 - 5,000	Power Demand
0 - 15,000	O Greater 5,000 Than	Inflow
15,000 - 30,000	0 - 30,000	Lesser of 15,000 or maximum inflow
0 - 30,000	Greater 30,000	Maximum inflow for flood
30,000 - 120,000	0	Lesser of maximum inflow or 60,000 c.f.s.
120,000 - 175,00	0	Lesser of maximum inflow or 100,000 c.f.s.
Greater Than - 175,00	0	Lesser of maximum inflow or 150,000 c.f.s.

Effective date: 13 Sept 1971

# Oroville Emergency Spillway Release Diagram



### OPERATING INSTRUCTIONS

- Follow regular flood control regulation schedule until larger releases are required by this schedule.
- Adjust the spillesy outflow each hour on the basis of the rate of rise of reservoir elevation in feet for the preceding hour and the current reservoir elevation as leticated by the current. Methads the current gate openings if smaller gate openings are called for the reservoir elevation callant to talk. If the reservoir direction is still rising, continue the spillesy outflow edjustment and if the paties are fully open.
- After the receivoir elevation starts to fail, maintain current gate openings until the flow has been reduced to 150,000 c.f.s.
- Cross operation in accordance with the emergency spillway release diagram is initiated, gate changes shall be made only in accordance with the above criteria.

### NOTES

- Parameter values are the rate of rise in reservoir elevation in feet during preceding hour.
- Sill of the flood control outlet is at elevation 813.6 feet. Ungsted spillway crest is at elevation 901 feet.
- Cleaherge through the flood control outlet is controlled by eight 17.6' x 33.0' gates with an additional 1732 feet of uncontrolled spillhory above servation 901 feet.

ORGVILLE DAM AND RESERVOIR Feather River, Colifornia

EMERGENCY SPILLWAY RELEASE DIAGRAM
Prepared Parazont to Flood Control Regulations

for Graville Dam and Reservoir

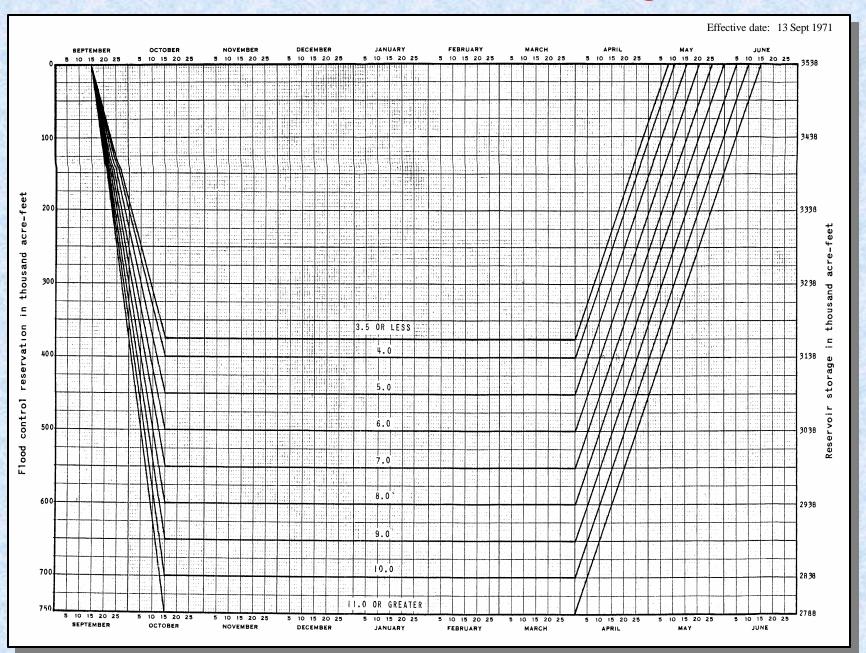
APPROVED: William SA., pinety of Civil of

Effective Date: 13 Dep 7/ File No: 4-13-586

### Oroville Water Control Manual

- Current manual August 1970
- Update of manual will begin shortly
  - Manual update does not include re-operation evaluations
- Process involves updating various components of the manual such as:
  - Figures frequency curves, historical operations, area-capacity
  - Maps topography and stream gaging stations, normal annual precipitation
  - Additional text further clarification of operational rules, recent environmental concerns
- Reallocation of flood storage involves an Act of Congress

## Oroville Flood Control Diagram



### Modifications to a Water Control Plan

- Initial Appraisal Report developed to determine whether or not a study should be performed
  - Conducted by Corps or operating agency
  - Federal funding is highly unlikely without congressional input
- **2** District performs studies to develop water control plan(s)

(may include assistance from project operating agency)

- Cost sharing between Corps and operating agency depending on beneficiary
- **3** District develops recommended plan
- **4** Preparation of environmental documentation
  - NEPA¹/CEQA²/ESA³ review and approval
  - Cost sharing depends on beneficiary

### Modifications to a Water Control Plan

- Review & preliminary approval by operating agency (State of California)
- Recommended plan is released for public review and comment
- Final review by the Corps District Office
- Review and preliminary approval by Corps Division office
- Final approval by operating agency
- Final approval by Corps Division office
- **O** Published in Federal Register (becomes law)

